# **TABLE OF CONTENTS**

- 1. GENERAL PRINCIPLES OF MRI.
- 2. PULSE SEQUENCES, SIGNAL AND CONTRAST IN MRI.
- 3. MRI ARTIFACTS.

### 4. OPTIMIZED TECHNIQUE:

Brain, Spine, Musculoskeletal, Technical particularities with low field imaging.

## 5. MRI OF THE BRAIN:

Congenital/Developmental disorders, Metabolic and Degenerative encephalopathies, Encephalitis, Brain neoplasia, Cystic conditions, Ischemic encephalopathy and vascular anomalies, Brain haemorrhage, Cranial nerve diseases.

# 6. MRI OF THE HEAD (NON NEUROLOGIC):

Nasal cavity, Orbit, Ear disease, Other.

## 7. SPINAL MRI:

Degenerative disc disease and disc herniation, Spondylomyelopathy, Lumbo-sacral disease, Anomalies/Malformations, Infection (discospondylitis, empyema), Neoplasia (vertebrae/meninges/spinal cord), Ischemic myelopathy, Spinal cord hemorrhage, Myelomalacia, Spinal cysts, Syringomyelia/Hydromyelia, Peripheral nerve sheath tumors, Degenerative myelopathy, Paraspinal soft tissues.

# 8. MUSCULOSKELETAL

MRI (Mostly shoulder and stifle).

### 9. THORACIC MRI:

Cardiac MRI, Non cardiac thoracic conditions.

### 10. ABDOMINAL MRI.